Patent Application No. 09/747/850 Docket No. 99/044NUT

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1.(currently amended)

A multifunctional encapsulated biologically active food component spherical device consisting of a core which comprises at least one dietary fiber, which core is surrounded by at least one biologically active substance, in which the core and the biologically active substance(s) are encapsulated by one or more shell-forming substance(s) selected from the group consisting of one or more of the following substances: monosaccharides, disaccharides, polysaccharides, emulsifiers, peptides, proteins and prebictic substances.

2.(currently amended)

The food component spherical device as claimed in claim 1, wherein the dietary fiber is selected from the group consisting of plant fibers, water-insoluble polysaccharides, water-soluble polysaccharides, pectins, lignin and plant gums.

5.(currently amended)

The food component spherical device as claimed in claim 1, wherein the dietary fiber is selected from the group consisting of one or more of the following substances: plant fibers, water-insoluble celluloses, water-insoluble hemicelluloses, water-soluble polysaccharides, pectins, lignins and plant gums.

Patent Application No. 09/747/850
Docket No. 99/044NUT

6.(currently amended)

The food component spherical device as claimed in claim 1, wherein the biologically active substance is selected from the group consisting of one or more of the following substances: probiotic microorganisms, prebiotic substances, enzymes, nutrients, natural or synthetic secondary plant constituents and substances having antioxidant activity.

11.(currently amended)

A process for producing a food component spherical device as claimed in claim 1, which comprises introducing a biologically active substance or a mixture of two or more biologically active substances into a medium which comprises one or more shell-forming substances selected from the group consisting of one or more of the following substances: monosaccharides, disaccharides, polysaccharides, emulsifiers, peptides, proteins and prebiotic substances, then enriching the resultant mixture with one or more dietary fiber(s), wherein one or more substances selected from the group consisting of biologically active substance, the shell-forming substance and the dietary fiber comprises at least one solvent or at least one dispersion media, then homogeneously mixing the mixture and then freeing it from solvents or dispersion media.

4.(previously cancelled)

12.(currently amended)

The food component spherical device as claimed in claim 1, wherein the polysaccharides are selected from the group consisting of hydrolyzed starches, microbial polysaccharides, plant polysaccharides, acidic plant gums, pectins and celluloses.

Patent Application No. 09/747/850 Docket No. 99/044NUT

13.(currently amended)	The food component spherical device as claimed in claim 2, wherein
	the plant fiber is selected from the group consisting of wheat fibers,
	apple fibers and oar fibers.

14.(currently amended)	The food component spherical device as claimed in claim 2, wherein
	the water-insoluble polysaccharides are celluloses.

15.(currently amended)	The food component spherical device as claimed in claim 5, wherein
	the plant fibers are selected from the group consisting of wheat
	fibers, oat fibers, rice dietary fibers, apple fibers and citrus fibers.

16.(currently amended)	The food compone	ent spherical de	evice as claimed in	claim 5, whe	erein
	the water-soluble	polysacchari	des are selected	from the gr	гоцр
	consisting of	β-glucans,	fructo-oligosa	ccharides	and
	galactooligosaccha	arides.			

17.(currently amended)	The food component spherical device as claimed in claim 6, wherein
	the nutrients are selected from the group consisting of vitamins,
	minerals, trace elements and amino acids.

18.(currently amended)	The food component spherical device as claimed in claim 6, wherein
	the natural or synthetic secondary plant constituents are carotenoids.

19.(currently amended)	The food component spherical device as claimed in claim 6, wherein
	the substances having antioxidant activity are flavonoids.